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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,472	04/15/2004	Robert H. Zimmer	98204.00024	8345
72535 7590 10/29/2007 MCCARTER & ENGLISH , LLP STAMFORD OFFICE FINANCIAL CENTRE , SUITE 304A			EXAMINER	
			TELLER, ROY R	
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,	2.30		1654	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/825,472	ZIMMER, ROBERT H.		
Office Action Summary	Examiner	Art Unit		
	Roy Teller	1654		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
 Responsive to communication(s) filed on <u>15 Au</u> This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) 1-17 and 25 is/are pending in the app 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17,25 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer and the correction of the correction o	epted or b) objected to by the following(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

This office action is in response to the amendment, received 8/15/07, in which applicant amended claims 1, 5 and 25.

This application contains claims 18-24, drawn to an invention non-elected. A complete reply to the final rejection must include cancellation of non-elected claims or other appropriate action (37 CFR 1.144). See MPEP 821.01.

Claims 1-17 and 25 are under examination.

Response to Amendments/Arguments

Applicant's arguments and amendments filed 8/15/07 are acknowledged and have been fully considered. Any rejection and/or objection not specifically addressed is herein withdrawn.

Claim Rejections - 35 USC § 112

Claims 1-17 and 25 are/stand rejected under 35 USC 112, first paragraph for the reasons of record which are restated below.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-17 and 25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

This is a "written description" rejection, rather than an enablement rejection under 35 U.S.C. 112, first paragraph. Applicant is directed to the Guidelines for the Examination of Patent Applications Under the 35 U.S.C. 112, ¶ 1 "Written Description" Requirement, Federal Register, Vol. 66, No. 4, pages 1099-1111, Friday January 5, 2001.

The factors considered in the Written Description requirement are (1) level of skill and knowledge in the art, (2) partial structure, (3) physical and/or chemical properties, (4) functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the (5) method of making the claimed invention.

In the instant case, the claims are drawn to a pharmaceutical agent having the formula:

Carrier-Linker-Peptide.

(1) Level of skill and knowledge in the art:

The level of skill to practice the art of the instantly claimed invention is high with regard to conception, synthesis, and experimental protocols and data analysis of experimental results.

(2) Partial structure: (3) Physical and/or chemical properties: and (4) Functional characteristics:

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Wherein the peptide is a peptide having the formula aa_n , wherein peptide is Tyr-Gly-Gly-Phe-Met, carrier is a cinnamoyl and derivatives thereof and wherein the linker is -C6 or C8 acididic moiety and derivatives thereof.

Vas-Cath Inc. V. Mahurka, 19 USPQ2d 1111, states that "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention, for purposes of the "written description" inquiry, is whatever is now claimed" (see page 1117).

A review of the language of the claim indicates that these claims are drawn to a genus, i.e., the genus of a pharmaceutical agent having the formula: carrier-linker-peptide, wherein the peptide is a peptide having the formula aa_n , wherein peptide is Tyr-Gly-Gly-Phe-Met, carrier is a cinnamoyl and derivatives thereof and wherein the linker is -C6 or C8 acidide moiety and derivatives, pseudopeptides, and peptide mimics thereof.

A description of a genus may be achieved by means of a recitation of a representative number of species falling within the scope of the genus or of a recitation of structural features common to the members of the genus, which features constitute a substantial portion of the genus. Regents of the University of California v. Eli Lilly & Co., 119 F3d 1559, 1569, 43

USPQ2d 1398, 1406 (Fed. Cir. 1997). In Regents of the University of California v. Eli Lilly (43

USPQ2d 1398-1412), the court held that a generic statement which defines a genus of nucleic acids by only their functional activity does not provide an adequate written description of the genus. The court indicated that, while applicants are not required to disclose every species encompassed by a genus, the description of the genus is achieved by the recitation of a representative number of species falling within the scope of the claimed genus. At section B(1),

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the court states "An adequate written description of a DNA ... requires a precise definition, such as by structure, formula, chemical name, or physical properties, not a mere wish or plan for obtaining the claimed chemical invention".

There is a single species of the claimed genus disclosed that is within the scope of the claimed genus, *i.e.* wherein peptide is Tyr-Gly-Gly-Phe-Met, carrier is a cinnamoyl and wherein the linker is –C6 or C8 acidide moiety. The disclosure of a single disclosed species may provide an adequate written description of a genus when the species disclosed is representative of the genus. However, the present claim encompasses numerous species of derivatives, pseudopeptides, peptide mimics, and pharmaceutical agents with an immune sequence characteristic of an infectious, viral or cancerous disease that are not further described and there is substantial variability among the species. No single claim is drawn to a single species which is fully defined.

One of skill in the art would not recognize from the disclosure that the applicant was in possession of the genus of which comprises the genus of derivatives of the carrier and the linker. The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed" (see *Vas-Cath* at page 1116).

Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. 112 is severable from its enablement provision (see page 1115).

All other claims depend directly or indirectly from the rejected claim and are, therefore, also rejected under 35 USC 112, first paragraph for the reasons set forth above.

Applicants arguments were carefully considered but were not found persuasive.

Applicant contends that, generally, the more sophisticated that a person of skill in the art would

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be, the less disclosure is necessary to satisfy the written description requirement. Further, there is a strong presumption that an adequate written description of the claimed invention is present when the application is filed. Applicant contends that the examiner is improperly attempting to limit the scope of the claims based on the description of certain preferred embodiments. However, the examiner contends that the present claim encompasses numerous species that are not further described and that there is substantial variability among the species. Absent further disclosure from applicant, a written description rejection is appropriate. Further, the examiner contends that the instant specification must provide an enabling disclosure of the claimed subject matter; mere naming or description of the claimed subject matter is insufficient, if it cannot be produced without undue experimentation. One species of the claimed genus was fully disclosed; wherein peptide is Tyr-Gly-Gly-Phe-Met, carrier is a cinnamoyl and wherein the linker is -C6 or C8 acidide moiety. The disclosure of a single disclosed species may provide an adequate written description of a genus when the species disclosed is representative of the genus. However, the present claim encompasses numerous species of derivatives, pseudopeptides, peptide mimics, and pharmaceutical agents with an immune sequence characteristic of an infectious, viral or cancerous disease that are not further described and there is substantial variability among the species. No single claim is drawn to a single species which is fully defined. Therefore, the envisioned genus of a pharmaceutical agent having the formula: Carrier-Linker-Peptide, would not be produced without undue experimentation.

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Conclusion

All claims are rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy Teller whose telephone number is 571-272-0971. The examiner can normally be reached on Monday-Friday from 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RT 1654 10/24/07

> CHRISTOPHER R. TATE PRIMARY EXAMINER